

## **SECTION 731**

### **TIMBER PRESERVATIVES AND TREATMENT**

This Section covers the preservative and treatment of timber where preservative treatment is specified.

#### **731.01. TIMBER PRESERVATIVES AND TREATMENT.**

- (a) **Materials.** Timber preservative treatment shall conform to the requirements of AASHTO M 133. Unless otherwise provided, the type of preservative used shall be as follows:
  - 1. **Creosote Oil and Creosote Solutions.** These preservatives shall be used for piling and structural grade timber.
  - 2. **Creosote Oil, Creosote Solutions, Oil-Borne Preservative and Water-Borne Chromated Copper Arsenate.** These preservatives shall be used for guard rail posts, spacer blocks, guide posts, fence posts, and post bracing.
- (b) **Preparation for Treatment.**
  - 1. **General Requirements.** All lumber, timber, piling, and posts shall be of the grade and size specified and shall be inspected for grade and size immediately prior to the treatment.
  - 2. **Inspection.** All materials and processes used in the treatment shall be subject to inspection at the manufacturer's plant, which shall be equipped with all necessary gauges, appliances, and facilities to enable the inspector to satisfy himself that the requirements of the Specifications are fulfilled. Inspection for conformity with the specified treatment shall be in accordance with the current AWP Standard M2.
- (c) **Handling.** After treatment the lumber or timber shall be handled carefully, piled properly, and allowed to dry thoroughly.

## **SECTION 732**

### **MATERIALS FOR GUARD RAIL, GUIDE POSTS, BRIDGE RAIL, MISCELLANEOUS RAILING AND FENCES**

This Section covers the requirements for materials for guard rail, guide posts, bridge rail, miscellaneous railing, fences, and gabion wire baskets.

#### **732.01. METAL BEAM RAIL.**

- (a) **Beams.** Corrugated steel beams shall conform to the requirements of AASHTO M 180 for the gauge specified on the Plans.
- (b) **Guard Rail Posts and Spacer Blocks.**
  - 1. **Steel Posts.** Steel posts and spacer blocks shall be of the length and size shown on the Plans. Hot rolled (forged) steel shapes shall conform to the requirements of AASHTO M 183 and shall be furnished galvanized in accordance with AASHTO M 111. All punching, drilling, cutting, shearing, and grinding shall be performed prior to galvanization. Surface defects shall be repaired by grinding, cutting, welding, or other industry acceptable method, then coated with two coats of zinc-dust zinc-oxide primer meeting the requirements of Section 730. Alternate repair techniques shall be those shown in ASTM A 780, Repair of Hot-Dip Galvanized Coatings.